

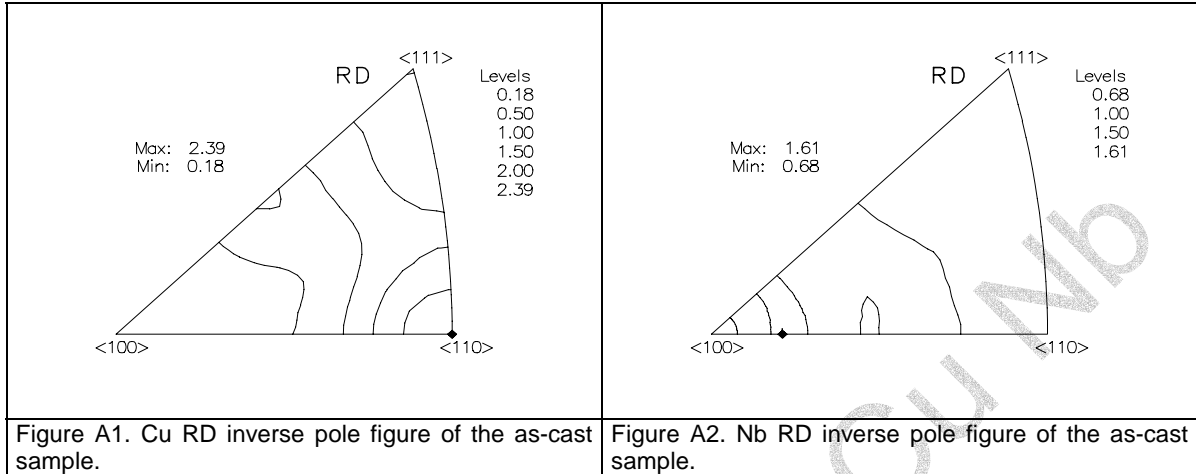
# **Crystallographic textures of wire drawn and annealed Cu-18%Nb composite wires**

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1. As-Cast Cu-18%Nb



2. As-Drawn Cu-18%Nb

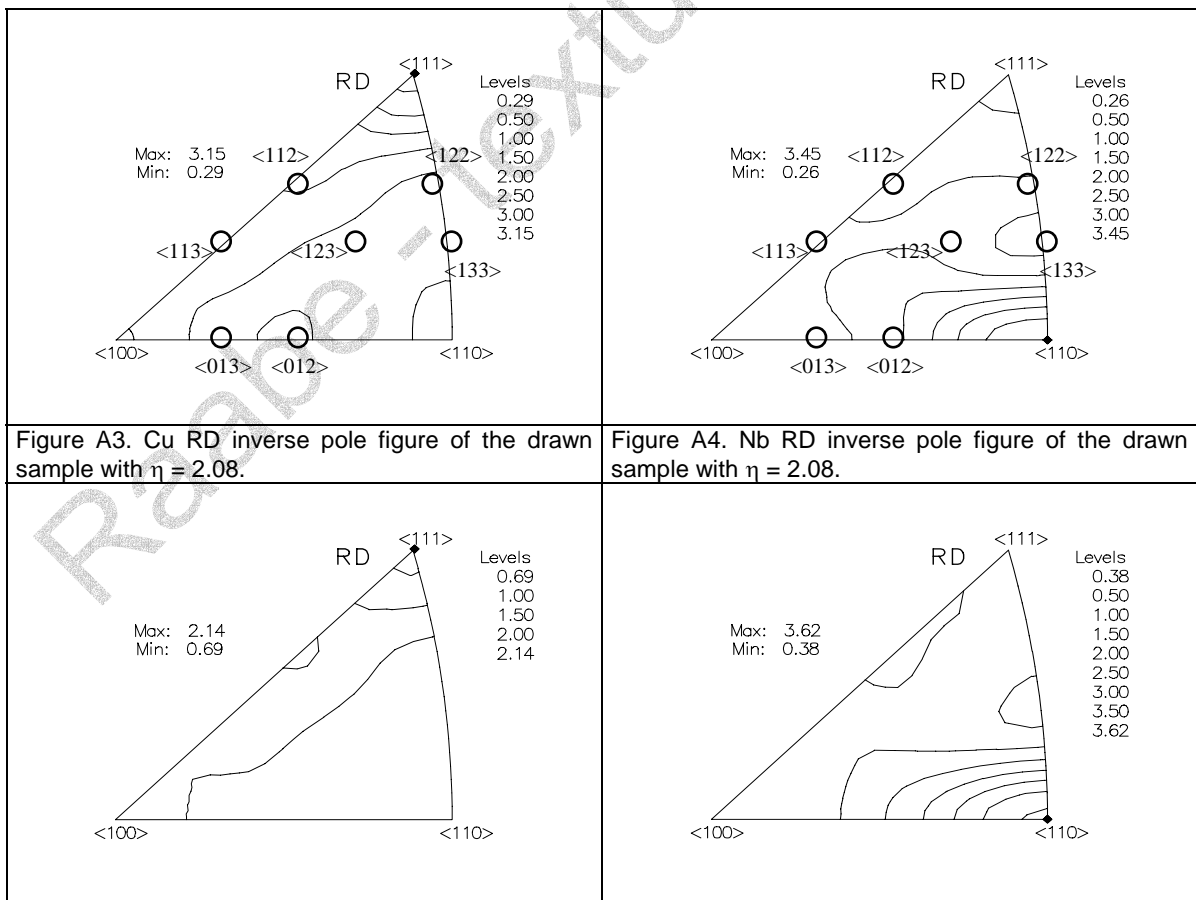


Figure A5. Cu RD inverse pole figure of the drawn sample with  $\eta = 3.01$ .

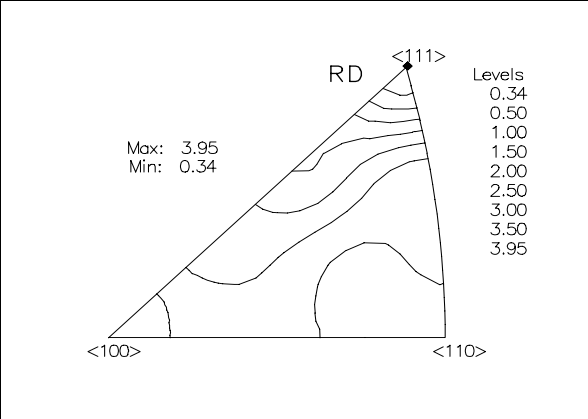


Figure A6. Nb RD inverse pole figure of the drawn sample with  $\eta = 3.01$ .

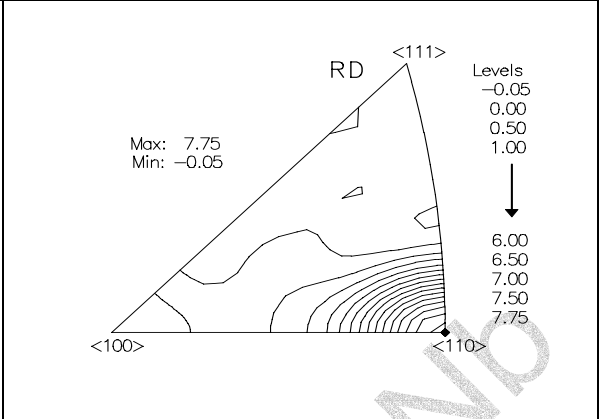


Figure A7. Cu RD inverse pole figure of the drawn sample with  $\eta = 3.95$ .

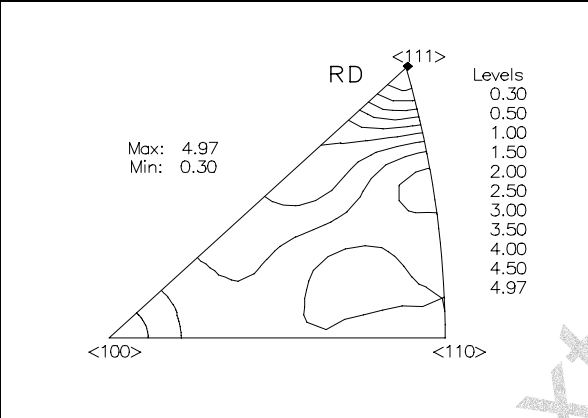


Figure A8. Nb RD inverse pole figure of the drawn sample with  $\eta = 3.95$ .

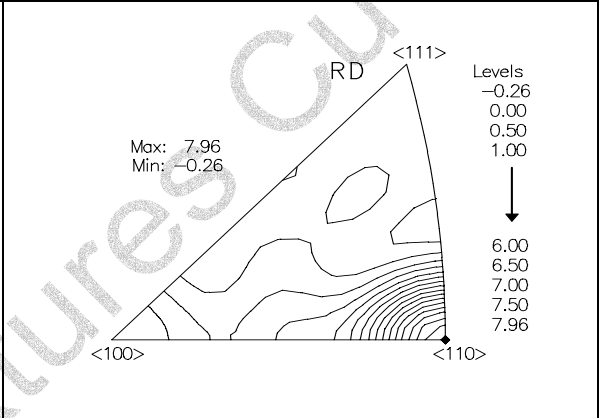


Figure A9. Cu RD inverse pole figure of the drawn sample with  $\eta = 4.97$ .



Figure A10. Nb RD inverse pole figure of the drawn sample with  $\eta = 4.97$ .



3. Drawn-Annealed Cu-18%Nb at T = 600°C

3.1 T = 600°C, t = 12 hr

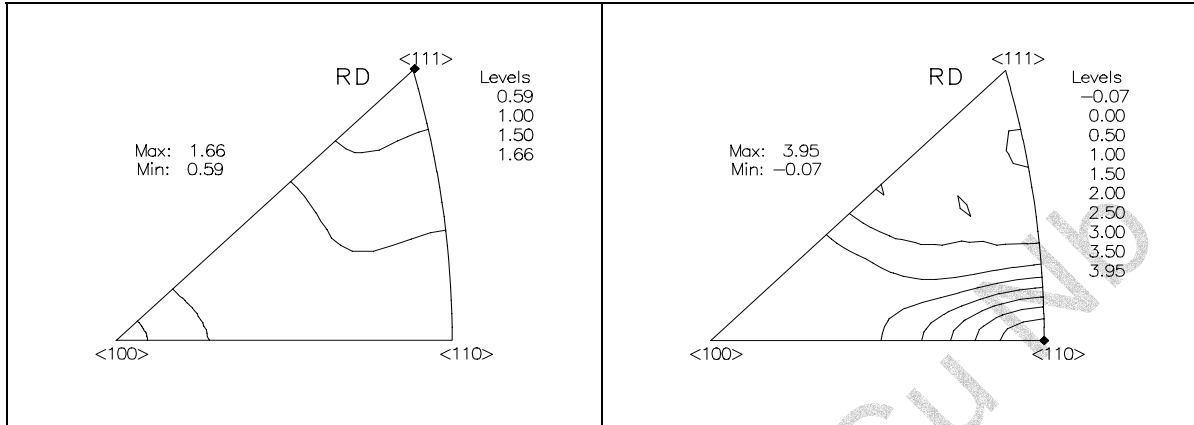


Figure A11. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ , T = 600°C, t = 12 hr.

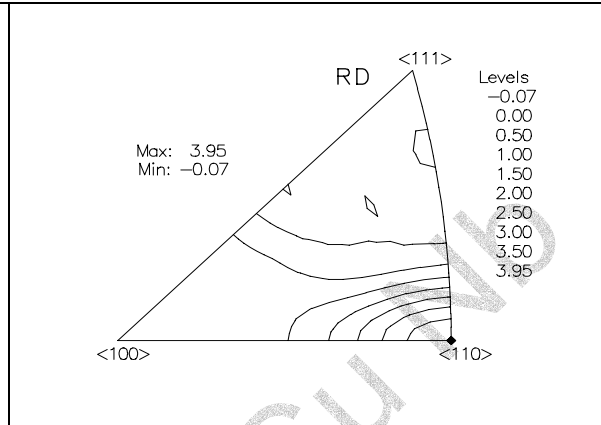


Figure A12. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ , T = 600°C, t = 12 hr.

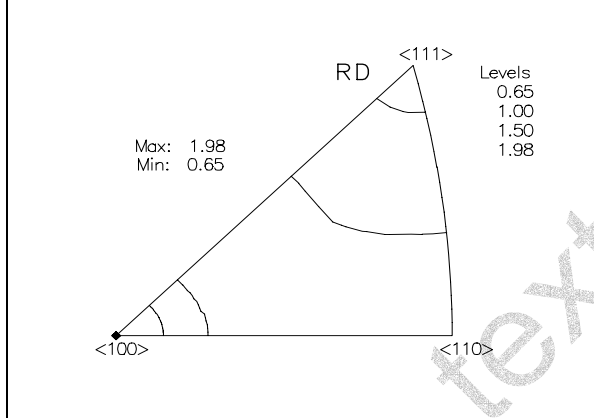


Figure A13. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.01$ , T = 600°C, t = 12 hr.

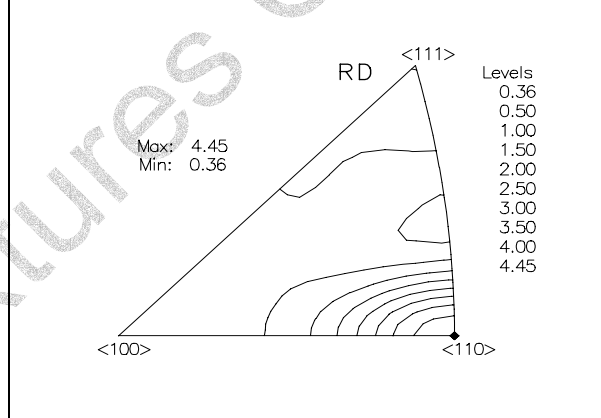


Figure A14. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.01$ , T = 600°C, t = 12 hr.

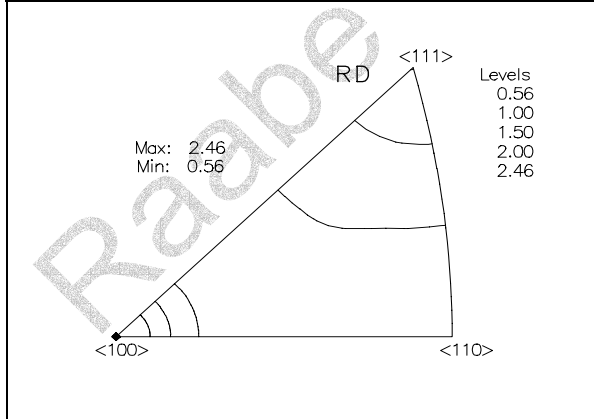


Figure A15. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ , T = 600°C, t = 12 hr.

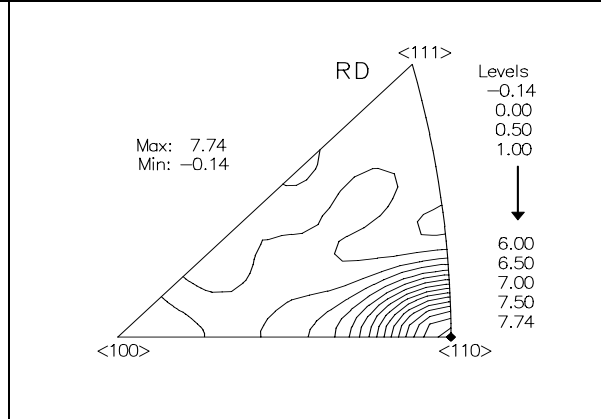
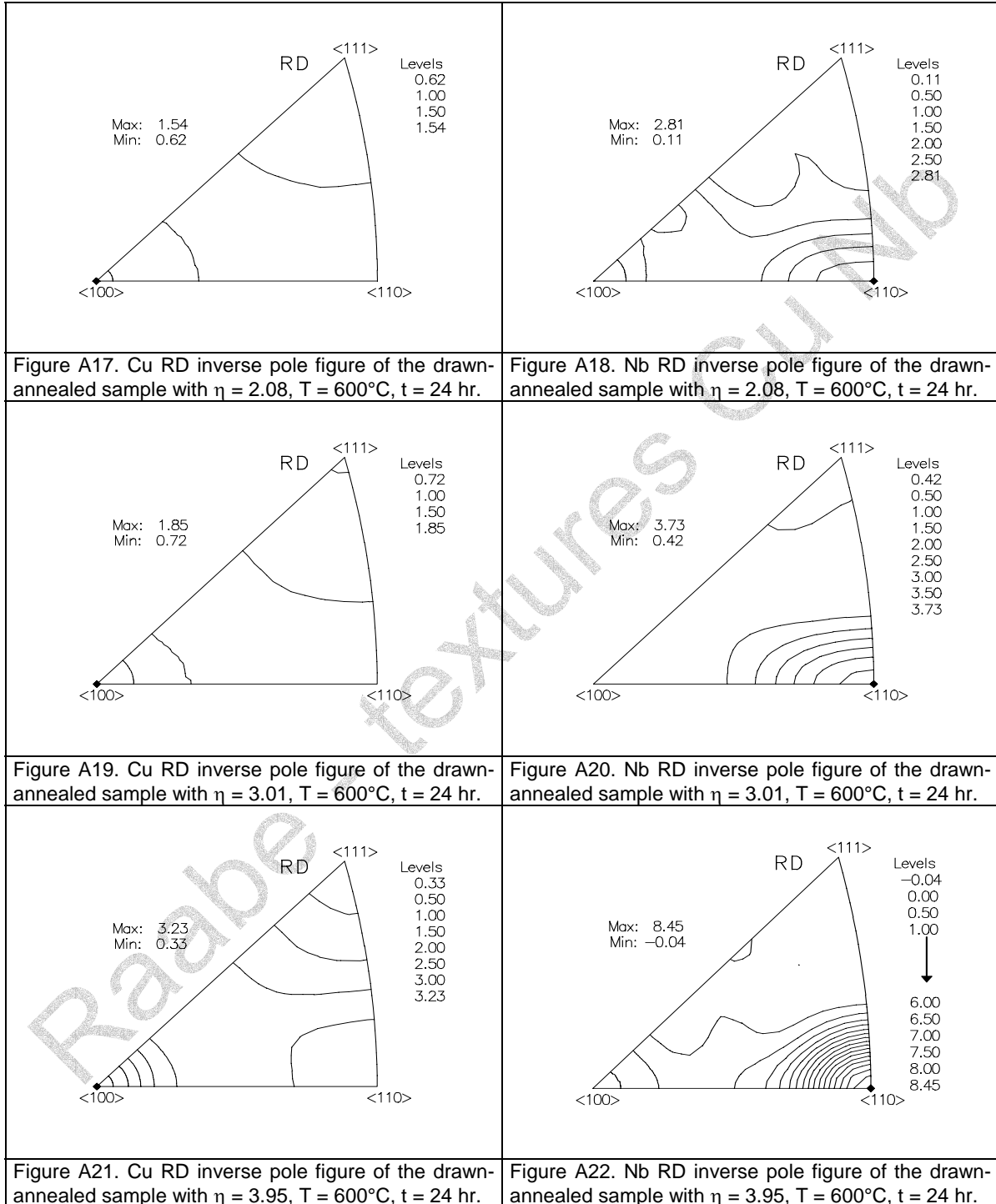


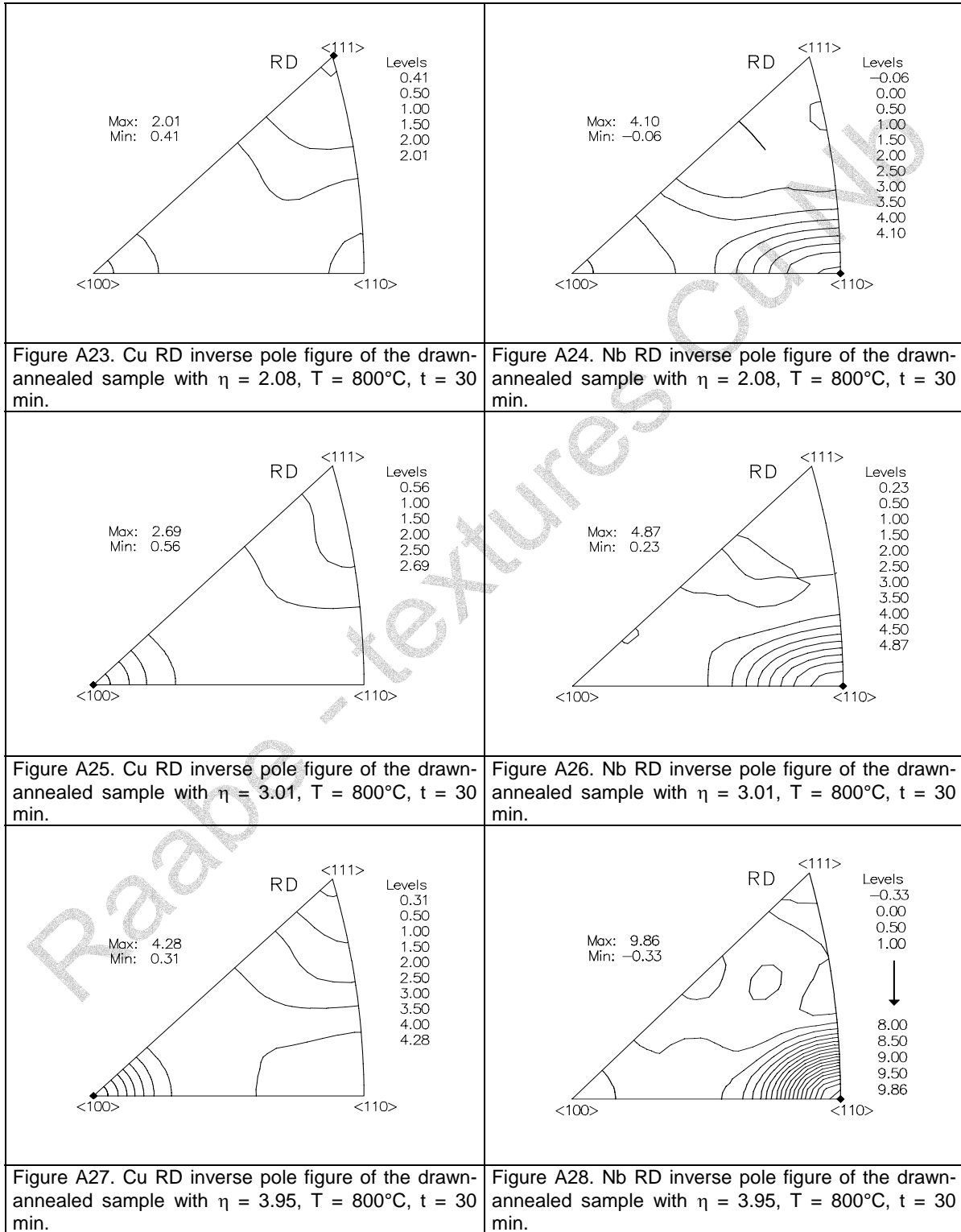
Figure A16. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ , T = 600°C, t = 12 hr.

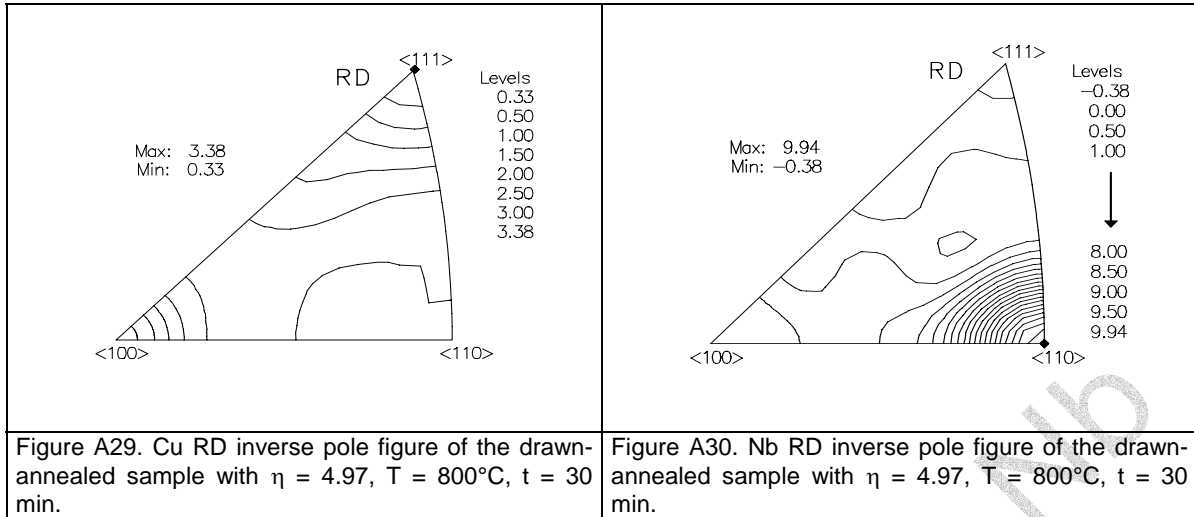
3.2  $T = 600^{\circ}\text{C}$ ,  $t = 24 \text{ hr}$



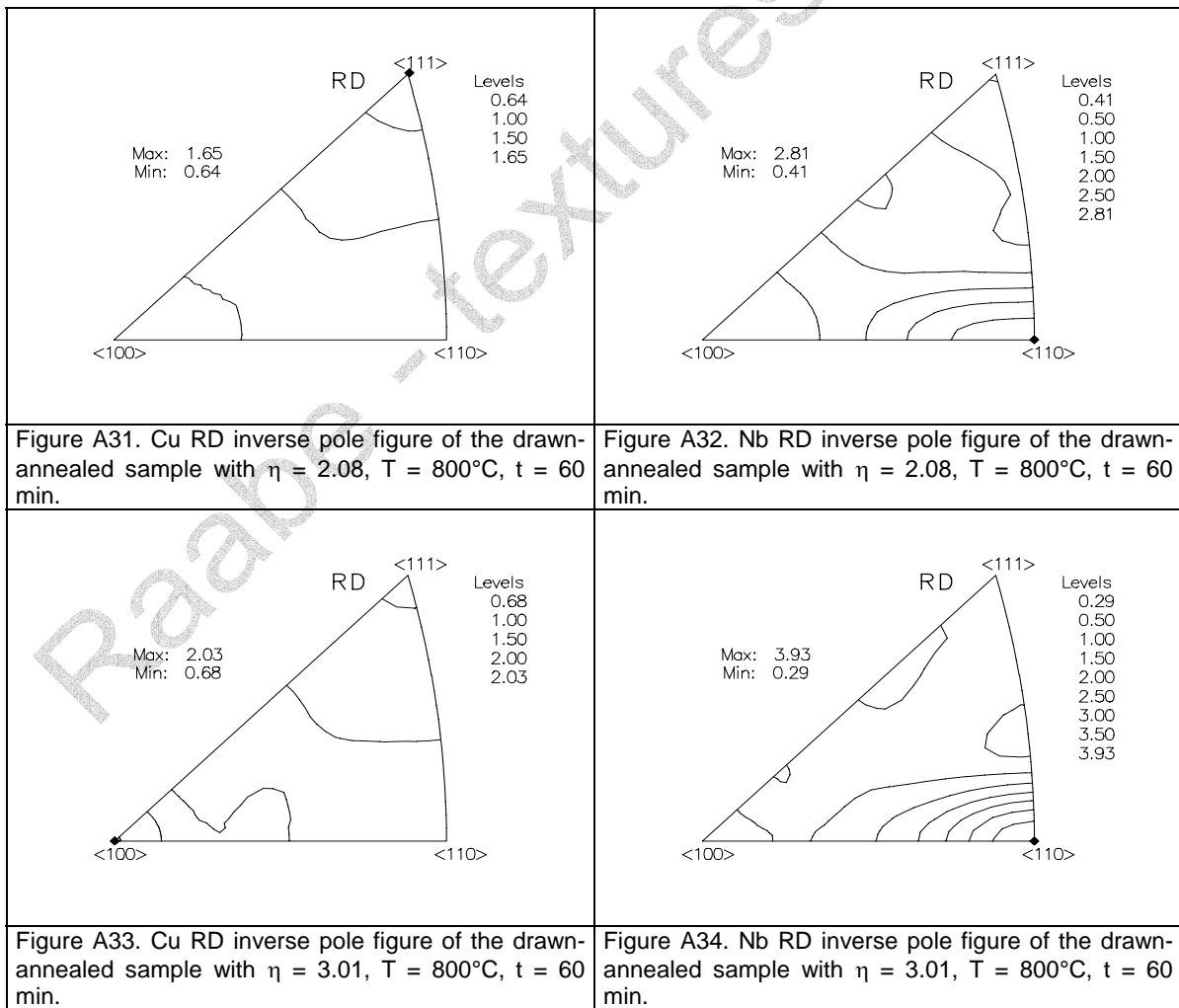
4. Drawn-Annealed Cu-18%Nb at T = 800°C

4.1 T = 800°C, t = 30 min





4.2  $T = 800^\circ\text{C}$ ,  $t = 60$  min



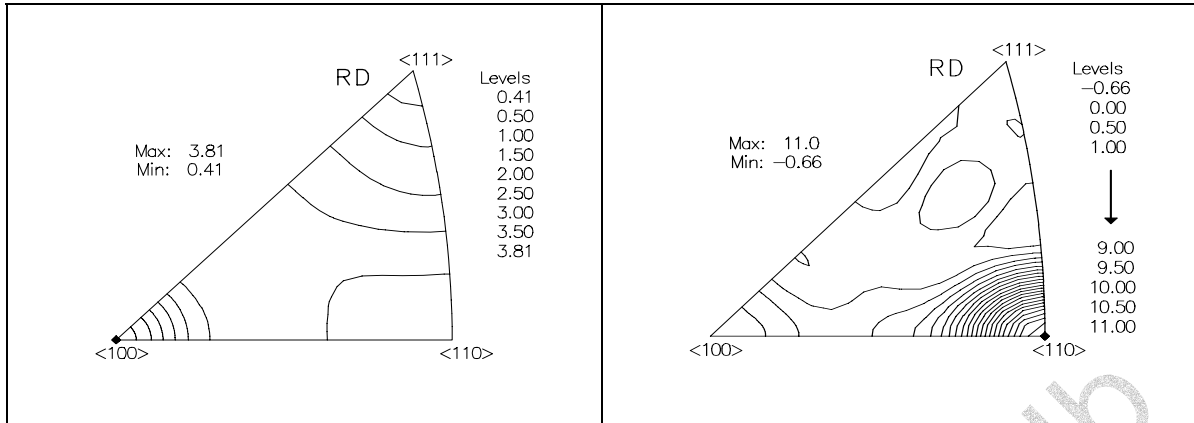


Figure A35. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ ,  $T = 800^\circ\text{C}$ ,  $t = 60$  min.

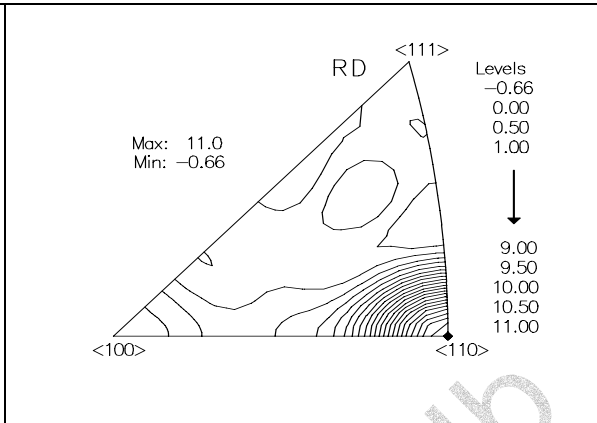


Figure A36. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ ,  $T = 800^\circ\text{C}$ ,  $t = 60$  min.

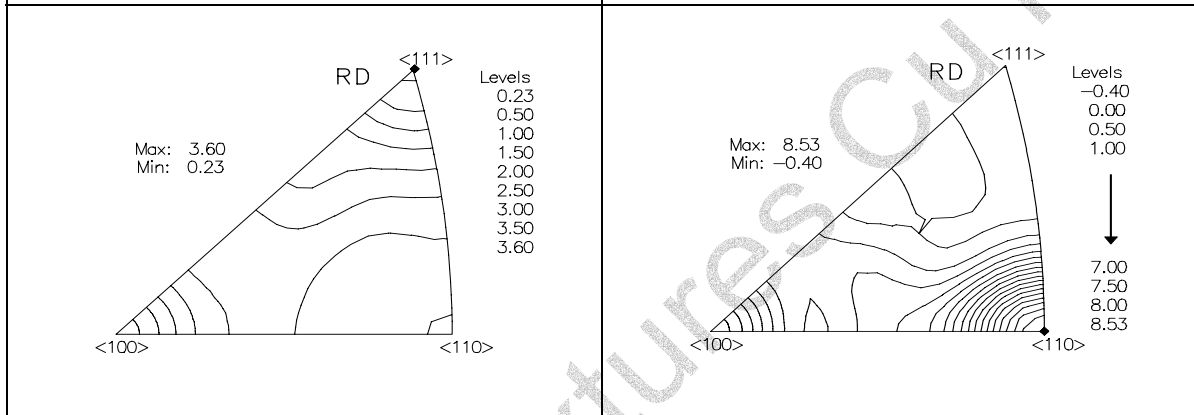


Figure A37. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 4.97$ ,  $T = 800^\circ\text{C}$ ,  $t = 60$  min.

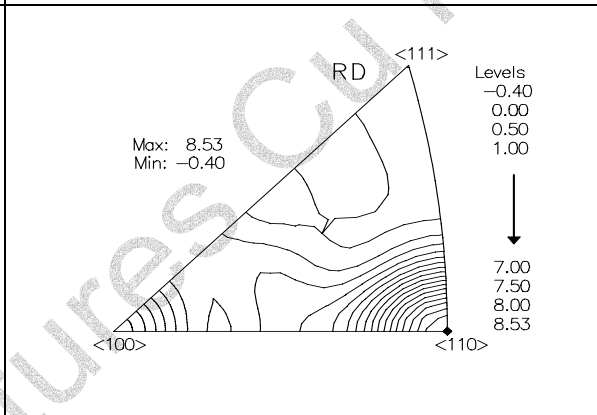


Figure A38. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 4.97$ ,  $T = 800^\circ\text{C}$ ,  $t = 60$  min.

## 5. Drawn-Annealed Cu-18%Nb at $T = 1000^\circ\text{C}$

### 4.1 $T = 1000^\circ\text{C}$ , $t = 30$ min

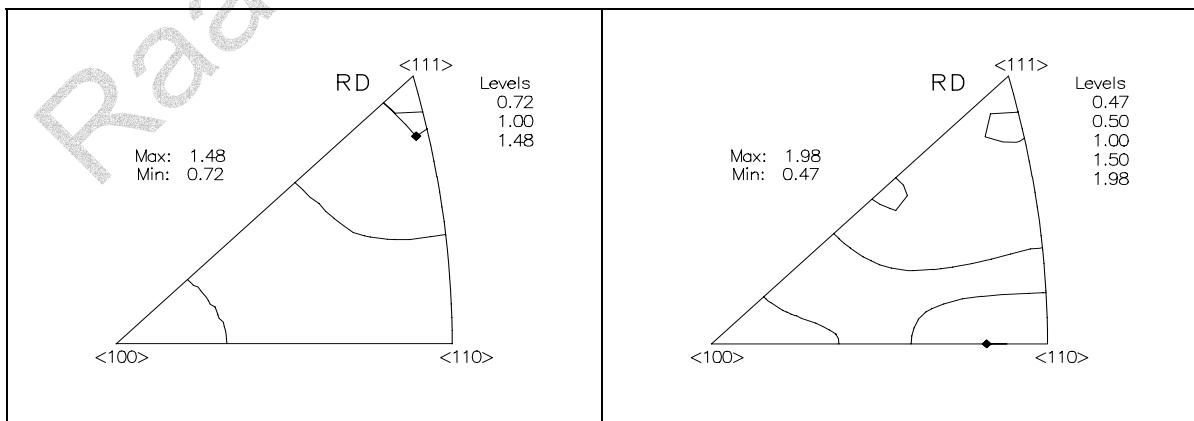


Figure A39. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ ,  $T = 1000^\circ\text{C}$ ,  $t = 30$  min.

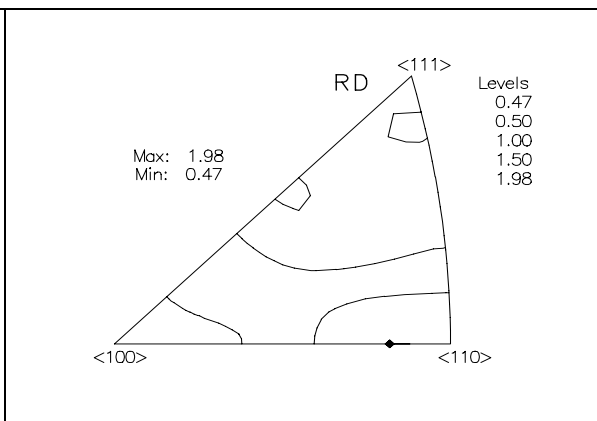
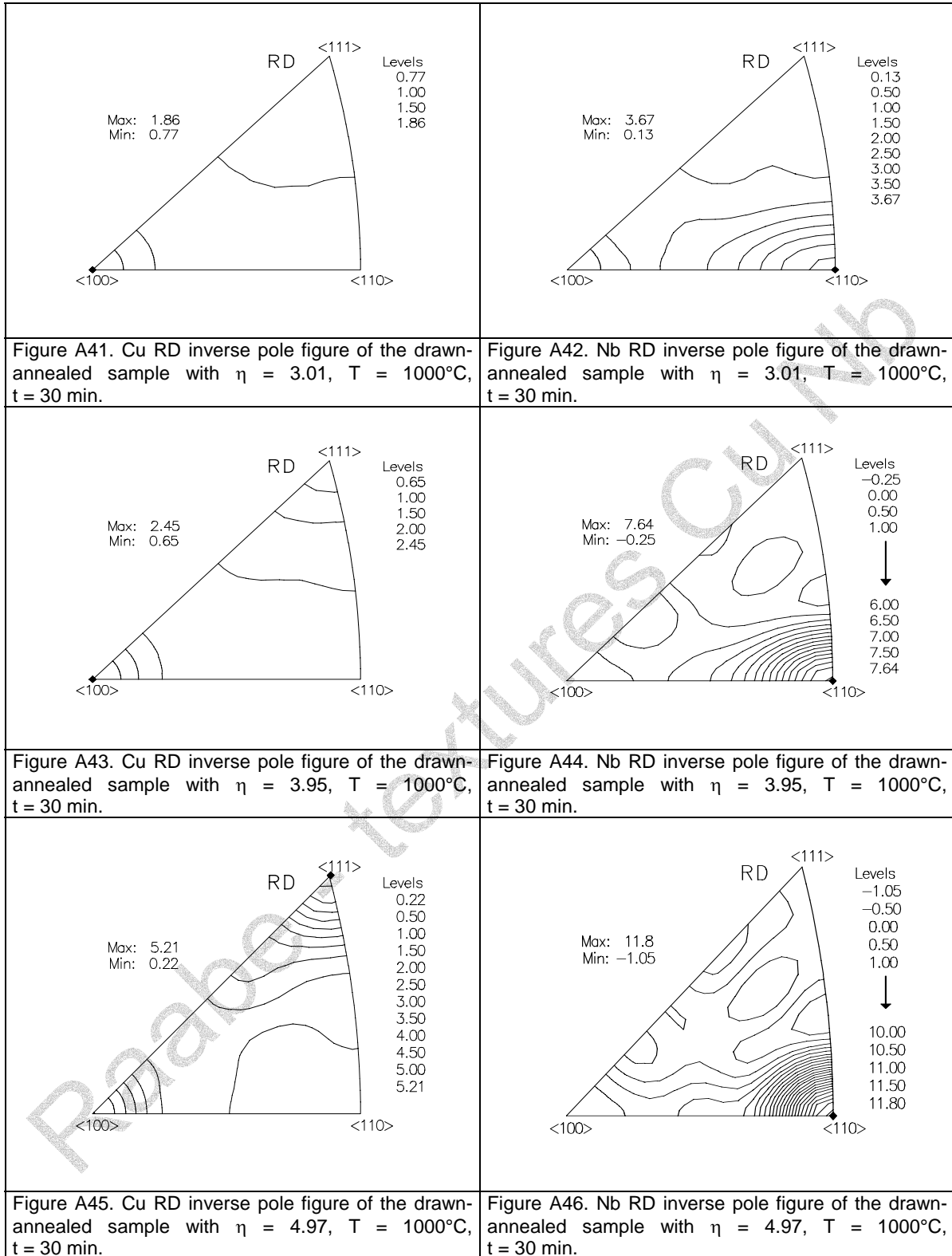


Figure A40. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ ,  $T = 1000^\circ\text{C}$ ,  $t = 30$  min.





5.2  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$

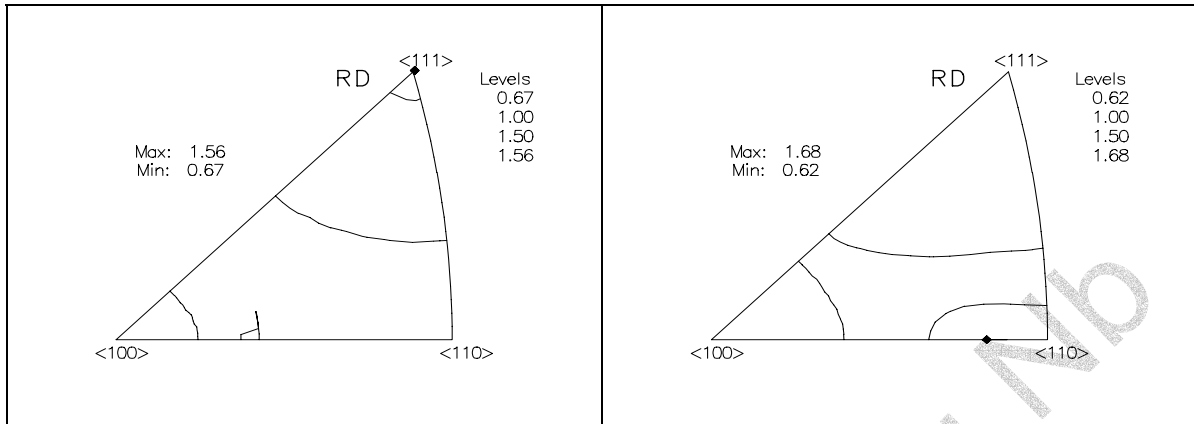


Figure A47. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

Figure A48. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 2.08$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

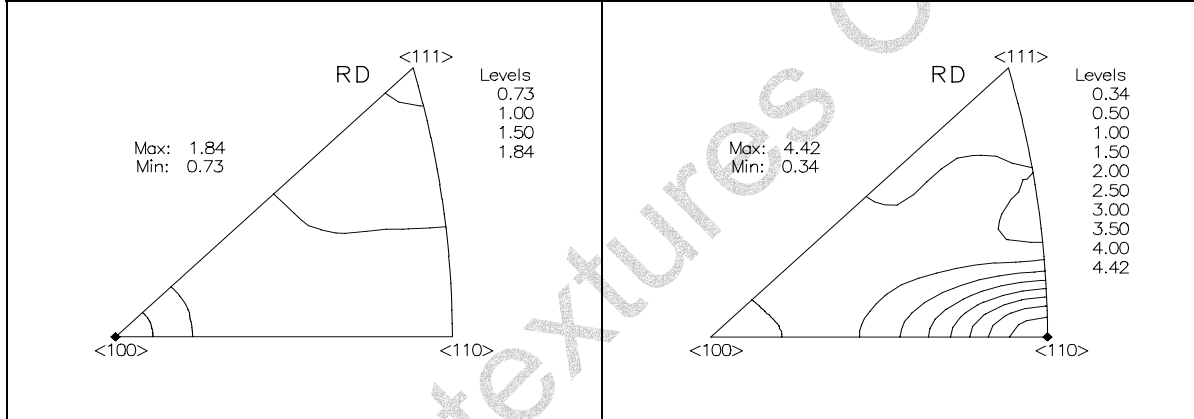


Figure A49. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.01$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

Figure A50. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.01$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

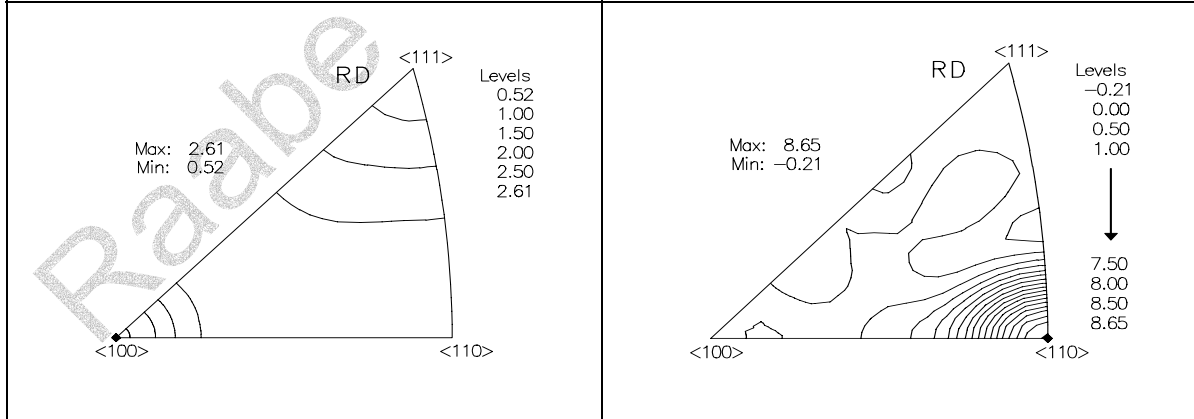


Figure A51. Cu RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

Figure A52. Nb RD inverse pole figure of the drawn-annealed sample with  $\eta = 3.95$ ,  $T = 1000^{\circ}\text{C}$ ,  $t = 60 \text{ min}$ .

